CLAIMS

I claim:

- 1. A microcomputer controlled system for recycling washing machine gray water effluent to irrigation and an outside toilet comprising:
 - a microcomputer for controlling the recycling system;
- a large gray water tank having a discharge hose attached to a washing machine's drain hose ending in a filter sock inside the tank;
 - a vertical suction tube having an external switch pump;
 - a pipe leading from the pump bifurcating to form a restricted flow branch pipe and an unrestricted flow branch pipe;
 - a pressure regulator device on said restricted flow branch pipe;
 - at least three in-line chemical filters for filtering restricted flow gray water;
 - an ultraviolet radiation device radiating the filtered gray water; and
 - a conduit passing the filtered radiated gray water to an outside toilet and to a water sprinkler system.
 - 2. The gray water recycling system according to claim 1, wherein the tank is a fifty-five gallon drum located adjacent to the washing machine.

- 3. The gray water recycling system according to claim 1, wherein a one-way check valve is positioned at an inlet of the vertical suction tube.
- 4. The gray water recycling system according to claim 1, wherein the unrestricted flow branch pipe conducts gray water to a zone valve and joins the filtered and radiated gray water stream.
- 5. The gray water recycling system according to claim 1, wherein the tank has an overflow drain pipe inclined downward 10 to 15 degrees.
- 6. The gray water recycling system according to claim 1, wherein the in-line filters are selected from the group consisting of ion exchange resin, activated carbon and mixtures thereof.
- 7. The gray water recycling system according to claim 1, wherein the pH of the gray water inside the tank is adjusted to a range of 7 to 8 by an acidic reagent selected from the group consisting of a biodegradeable soup, vinegar and acetic acid.
- 8. The gray water recycling system according to claim 7, wherein the pH is adjusted by addition of a biodegradable soup.
- 9. The gray water recycling system according to claim 7, wherein the pH is adjusted by addition of either vinegar or acetic acid.

- 10. A system for recycling washing machine gray water effluent to irrigation and an inside/outside toilet comprising:
 - a microcomputer for controlling the system;
- a large gray water tank having a discharge hose attached to a washing machine's drain hose ending in a filter sock inside the tank;
 - a vertical suction tube having an external switch pump;
- a pipe leading from the pump to a filter and a strainer in line;
- an ultraviolet radiation device irradiating the filtered gray water;
- an unrestricted gray water supply line joining the filtered and irradiated gray water supply line;
- a pressure switch measuring and adjusting the pressure of the supply line;
 - a manifold and a pressure gauge;
- a supply pipe positioned from the manifold to a supply line having a series of solenoid valves for controlling the supply of treated gray water to the inside toilet and outside devices;
- a reservoir containing an 8 to 20 psi mist or drip device; and
- a drain valve for controlling the level of the treated gray water.

- 11. The gray water recycling system according to claim 10, wherein the tank is a fifty-five gallon drum located adjacent to the washing machine.
- 12. The gray water recycling system according to claim 11, a one-way check valve is positioned at an inlet of the vertical suction tube.
- 13. The gray water recycling system according to claim 11, wherein the tank has an overflow drain pipe inclined downward 10 to 15 degrees.
- 14. The gray water recycling system according to claim 11, wherein the gray water from the tank flows through a filter.
- 15. The gray water recycling system according to claim 14, wherein the filter is selected from the group consisting of an organic ion exchange resin and an activated carbon.
- 16. The gray water recycling system according to claim 15, wherein the filter is an organic ion exchange resin.
- 17. The gray water recycling system according to claim 15, wherein the filter is activated carbon.

- 18. The gray water recycling system according to claim 11, wherein a water meter is inserted in the gray water line after the ultraviolet radiation device.
- 19. The gray water recycling system according to claim 11, wherein a low-level controller device is inserted in the gray water line between the solenoid valves and the manifold.
- 20. The gray water recycling system according to claim 11, wherein the outside devices are an outside toilet and a water sprinkler system.